Kaushik Holla Vaderhobli Madhava Krishna

Boston, MA, 02215 | 857 869 3573| vaderhoblimadhavak.k@husky.neu.edu |linkedin.com/in/kaushik-holla | GitHub
Available: May 2020 to Dec 2020

EDUCATION

Northeastern University, Boston, MA *Sep 2019 - current*
Khoury College of Computer Sciences *Expected Graduation: May 2021*
Master of Science, Data Science
Recipient of Khoury Graduate Fellowship in Spring 2020
Related courses: Introduction to Linear Algebra and Probability for Data Science, Algorithms, Machine Learning.

Dr. Ambedkar Institute of Technology (Dr. AIT), Bangalore, India *June 2017*
Bachelor of Engineering in Computer Science
Related Courses: Data Structures, Database management system, Java, Web Development, Unix and Shell Programming.

TECHNICAL KNOWLEDGE

Technologies	Python, R, Shell Scripting, Java, SQL
Data Science	Linear Algebra & Probability, Machine Learning, Deep Learning, NLP, Keras, spaCy, Web Crawling, PyTorch
Database	MySQL, Oracle, Hadoop
Tools	Jupiter Notebook, SQL developer, Vi Editor, MATLAB
Certification	Natural Language Processing Fundamentals, Network Analysis in Python, Statistical thinking in Python, Data Structures in Python, Building Deep Learning Applications with Keras 2.0

PROFESSIONAL EXPERIENCE

Northeastern University, Khoury College of Computer Sciences, Boston, United States *Dec 2019 – Present*
Machine Learning Research Assistant

- Research on application of Machine Learning algorithms for automatic assessment of students under supervision of Professor Wolfgang Gatterbauer.
- Implementation of Hyperlink-Induced Topic Search (HITS) algorithm (Page ranking algorithm) by modifying its parameters mathematically to make the algorithm to converge on negative values.
- Research and application of Machine Learning algorithms to predict the likelihood of student answering a question based on the ranking of Students obtained from HITS algorithm.

Subex Assurance LLP, Bangalore, India *June 2017 – Aug 2019*
Senior Software Engineer

- Designed and developed Machine Learning model to detect SIMBOX fraud by analyzing the call patterns, geographical locations, IMEI number, Number of Incoming and Outgoing calls with a result of 98.7 percent accuracy when deployed.
- Worked closely with the product development team to ensure accurate integration of the Machine Learning model into the system and developed techniques for monitoring and visualizing performance of the deployed model.
- Boosted customer experience for "Partner Settlement" product through bug fixes and automation of report generation process. Designed Shell scripts to notify and fix task failures automatically by analyzing the generated error logs and automated troubleshooting operations.
- Redesigned and optimized the "Merger task" in "Partner Settlement" using Java, shell scripting and Oracle which brought down the execution time from 11 hours to 4 hours.

PROJECTS

Sentimental Analysis of Stock Market from News Headlines *Oct 2019 – Dec 2019*

- Applied Sentimental Analysis on financial news headlines from "Finviz" using Natural Language Processing techniques to predict whether the market is positively or negatively inclined about a stock.

Classification of Song Genres from Audio Data *Sep 2019 – Oct 2019*

- Using a dataset comprised of songs of music genres, Trained a classifier to distinguish between the genres based only on track information derived from Echonest dataset using Principal Component Analysis, Logistic Regression and Random Forest Machine Learning algorithms.

Chatbot as Virtual Assistant *Aug 2019 - Sept 2019*

- Designed and Developed a chatbot that takes text message as input, creates SQL by parsing the input using Deep Learning and NLP, runs the query on the database to give the output as the response.